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L3 and (poi or (point-of-interest) or ("point of interest"))	0

Database:

US Pre-Grant Publication Full-Text Database
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 EPO Abstracts Database
 JPO Abstracts Database
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 IBM Technical Disclosure Bulletins

Search:

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Search History

DATE: Tuesday, August 10, 2004 [Printable Copy](#) [Create Case](#)

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DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR

L9 L3 and (poi or (point-of-interest) or ("point of interest")) 0 L9

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L8 L4 and poi 1 L8

L7 L4 and interest\$ 1 L7

L6 L4 and l2 2 L6

L5 L4 and l3 0 L5

L4 6427118.pn. or 6434482.pn. 2 L4

L3 L2 and ((point-of-interest) or ("point of interest")) 63 L3

L2 gps or (global adj position\$ adj system\$) 21998 L2

L1 vehicle and (navigation with system\$) 6672 L1

END OF SEARCH HISTORY

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L4: Entry 1 of 2

File: USPT

Aug 13, 2002

US-PAT-NO: 6434482

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshida; Naoya	Tokyo			JP
Takahashi; Shigehito	Yokohama			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Alpine Electronics, Inc.	Tokyo			JP	03

APPL-NO: 09/ 599237 [PALM]

DATE FILED: June 22, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-196868	July 12, 1999

INT-CL: [07] G01 C 21/00, G08 G 1/096

US-CL-ISSUED: 701/209, 701/201, 701/211, 340/995

US-CL-CURRENT: 701/209; 340/995.24, 701/201, 701/211

FIELD-OF-SEARCH: 701/200, 701/211, 701/201, 701/209, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#) [Search ALL](#) [Clear](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4761742</u>	August 1988	Hanabusa et al.	
<input type="checkbox"/> <u>5229947</u>	July 1993	Ross et al.	364/443
<input type="checkbox"/> <u>5515283</u>	May 1996	Desai et al.	364/443
<input type="checkbox"/> <u>5543789</u>	August 1996	Behr et al.	340/995
<input type="checkbox"/> <u>5654892</u>	August 1997	Fujii et al.	364/449.5

<input type="checkbox"/> <u>5767795</u>	June 1998	Schaphorst	340/988
<input type="checkbox"/> <u>5790973</u>	August 1998	Blaker et al.	701/123
<input type="checkbox"/> <u>5802492</u>	September 1998	DeLorme et al.	701/200
<input type="checkbox"/> <u>6014090</u>	January 2000	Rosen et al.	340/905
<input type="checkbox"/> <u>6175800</u>	January 2001	Mori et al.	701/202

ART-UNIT: 3661

PRIMARY-EXAMINER: Zanelli; Michael J.

ATTY-AGENT-FIRM: Brinks Hofer Gilson & Lione

ABSTRACT:

While the vehicle is traveling on a highway, the controller searches facilities located within a specific distance from the next exit of the highway, on the basis of the map data contained in the CD-ROM and the current vehicle position measured by a position measuring device, and provides the result to a display controller. The display controller superimposes on a displayed map image on a monitor the searched facilities as well as the distances from the relevant highway exit. The controller also searches a guide route to a facility selected by the user, stores it in a route guide memory, and executes route guidance to the facility on the basis of the guide route stored in the guide route memory. Thus, the invention provides a navigation system whereby the user can find facilities located within a specific distance from the next exit of the highway.

18 Claims, 7 Drawing figures

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L7: Entry 1 of 1

File: USPT

Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

CLAIMS:

1. A Point of Interest (POI) display method that associates with a highway exit a list of POIs located around the exit, wherein, while a vehicle is traveling the highway, the POIs associated with the next highway exit are displayed to be searched from the POI list and the name of the highway exit is displayed.

9. A Point of Interest (POI) display method for a navigation system that executes guidance to a destination by an arrow display without displaying a map, the POI display method comprising the steps of: searching a guide route to the destination, searching a POI located along the guide route, within a specific distance from a vehicle position, and displaying the searched POI together with the distance from the vehicle position.

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L8: Entry 1 of 1

File: USPT

Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

CLAIMS:

1. A Point of Interest (POI) display method that associates with a highway exit a list of POIs located around the exit, wherein, while a vehicle is traveling the highway, the POIs associated with the next highway exit are displayed to be searched from the POI list and the name of the highway exit is displayed.
2. A POI display method as claimed in claim 1, wherein the names or marks of the POIs located around the highway exit are displayed together with the distances from the exit.
3. A POI display method as claimed in claim 1, wherein an arrow indicating the direction of the next highway exit is displayed.
4. A POI display method as claimed in claim 1, wherein a desired POI is selected from the displayed POIs, and a guide route from the highway exit to the selected POI is searched and displayed.
5. A POI display method as claimed in claim 1, wherein, whether the vehicle has passed the highway exit or not is judged, and when the vehicle is judged to have passed the exit, a POI associated with the next highway exit is displayed.
6. A POI display method as claimed in claim 1, wherein information of the POIs located around the highway exit is received from outside the vehicle.
7. A POI display method as claimed in claim 1, wherein the list of the POIs located around the highway exit is divided into the POIs associated with the exit from the highway in a first direction of travel and the POIs associated with the exit from the highway in a second direction of travel.
8. A POI display method as claimed in claim 7, wherein a travel direction of the vehicle is detected, and a POI associated with the travel direction is displayed.
9. A Point of Interest (POI) display method for a navigation system that executes guidance to a destination by an arrow display without displaying a map, the POI display method comprising the steps of: searching a guide route to the destination, searching a POI located along the guide route, within a specific distance from a vehicle position, and displaying the searched POI together with the distance from the vehicle position.
10. A POI display method as claimed in claim 9, wherein the POI is displayed by name or a mark.
11. A POI display method as claimed in claim 9, wherein a desired POI is selected from the POIs displayed on a display screen, and route guidance is executed which

regards the selected POI as a stopping point along the way.

12. A POI display method as claimed in claim 9, wherein the POI information is received from outside the vehicle.

14. An on-vehicle navigation system as claimed in claim 13, wherein the map data storage means stores a list of the facilities located around the highway exit and divided into the POIs associated with the exit from the highway in a first direction of travel and the POIs associated with the exit from the highway in a second direction of travel.

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L4: Entry 2 of 2

File: USPT

Jul 30, 2002

US-PAT-NO: 6427118

DOCUMENT-IDENTIFIER: US 6427118 B1

TITLE: Vehicle-mounted navigation system, and recording medium having recorded thereon a processing program for use therewith

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Takumi	Shizuoka			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Yazaki Corporation	Tokyo			JP	03

APPL-NO: 09/ 689898 [\[PALM\]](#)

DATE FILED: October 13, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-294377	October 15, 1999

INT-CL: [07] [G01 C 21/00](#), [G01 S 1/02](#), [G01 S 5/02](#), [G06 G 7/78](#)

US-CL-ISSUED: 701/209; 701/200.208-, 701/210.215-, 701/23, 701/220, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 73/178R, 342/357.13, 342/457, 345/33

US-CL-CURRENT: [701/209](#); [340/988](#), [340/989](#), [340/990](#), [340/995.24](#), [342/357.13](#), [342/457](#), [345/33](#), [701/200](#), [701/201](#), [701/202](#), [701/203](#), [701/204](#), [701/205](#), [701/206](#), [701/207](#), [701/208](#), [701/210](#), [701/211](#), [701/212](#), [701/213](#), [701/214](#), [701/215](#), [701/220](#), [701/23](#), [701/24](#), [701/25](#), [701/26](#), [73/178R](#)

FIELD-OF-SEARCH: 701/200-215, 701/220, 701/23, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 340/723, 340/727, 73/178R, 342/357.13, 342/457, 345/33

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5067082	November 1991	Nimura et al.	364/449

<input type="checkbox"/> <u>5784059</u>	July 1998	Morimoto et al.	345/353
<input type="checkbox"/> <u>6006161</u>	December 1999	Katou	701/212
<input type="checkbox"/> <u>6035235</u>	March 2000	Hayashi et al.	701/211
<input type="checkbox"/> <u>6266613</u>	July 2001	Nimura et al.	701/210

ART-UNIT: 3661

PRIMARY-EXAMINER: Beaulieu; Yonel

ASSISTANT-EXAMINER: Mancho; Ronnie

ATTY-AGENT-FIRM: Morgan, Lewis & Bockius LLP

ABSTRACT:

A vehicle-mounted navigation system (1) including: a facility information acquisition device (21) which acquires facility information, wherein the facility information is position information pertaining to the facilities located around the route; a facility selection device (22) which selects, from among the facilities recorded in the facility information, upon consideration of the vehicle's travel direction, facilities whose landmarks are to be displayed on a display section (4); and a landmark display device which displays, on the display section (4), landmarks of the facilities selected by the facility selection device (22) on the basis of the facility information.

10 Claims, 5 Drawing figures

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☐ 1. Document ID: US 6434482 B1

L14: Entry 1 of 21

File: USPT

Aug 13, 2002

US-PAT-NO: 6434482

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 2. Document ID: US 6421606 B1

L14: Entry 2 of 21

File: USPT

Jul 16, 2002

US-PAT-NO: 6421606

DOCUMENT-IDENTIFIER: US 6421606 B1

**** See image for Certificate of Correction ****

TITLE: Route guiding apparatus and medium

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 3. Document ID: US 6418374 B2

L14: Entry 3 of 21

File: USPT

Jul 9, 2002

US-PAT-NO: 6418374

DOCUMENT-IDENTIFIER: US 6418374 B2

TITLE: Navigation device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 4. Document ID: US 6401034 B1

L14: Entry 4 of 21

File: USPT

Jun 4, 2002

US-PAT-NO: 6401034

DOCUMENT-IDENTIFIER: US 6401034 B1

TITLE: Method and system for finding intermediate destinations with a navigation system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 5. Document ID: US 6249740 B1

L14: Entry 5 of 21

File: USPT

Jun 19, 2001

US-PAT-NO: 6249740

DOCUMENT-IDENTIFIER: US 6249740 B1

TITLE: Communications navigation system, and navigation base apparatus and vehicle navigation apparatus both used in the navigation system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 6. Document ID: US 6212472 B1

L14: Entry 6 of 21

File: USPT

Apr 3, 2001

US-PAT-NO: 6212472

DOCUMENT-IDENTIFIER: US 6212472 B1

TITLE: Method and apparatus for displaying current vehicle position

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 7. Document ID: US 6205398 B1

L14: Entry 7 of 21

File: USPT

Mar 20, 2001

US-PAT-NO: 6205398

DOCUMENT-IDENTIFIER: US 6205398 B1

**** See image for Certificate of Correction ****

TITLE: Apparatus and method for navigation and medium for providing the method

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 8. Document ID: US 6151552 A

L14: Entry 8 of 21

File: USPT

Nov 21, 2000

US-PAT-NO: 6151552

DOCUMENT-IDENTIFIER: US 6151552 A

TITLE: Route guidance apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 9. Document ID: US 6125323 A

L14: Entry 9 of 21

File: USPT

Sep 26, 2000

US-PAT-NO: 6125323

DOCUMENT-IDENTIFIER: US 6125323 A

TITLE: Device for processing road data or intersection data

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 10. Document ID: US 6098015 A

L14: Entry 10 of 21

File: USPT

Aug 1, 2000

US-PAT-NO: 6098015

DOCUMENT-IDENTIFIER: US 6098015 A

TITLE: Navigation system for vehicles and storage medium

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 11. Document ID: US 6084543 A

L14: Entry 11 of 21

File: USPT

Jul 4, 2000

US-PAT-NO: 6084543

DOCUMENT-IDENTIFIER: US 6084543 A

TITLE: Route guide apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 12. Document ID: US 6070122 A

L14: Entry 12 of 21

File: USPT

May 30, 2000

US-PAT-NO: 6070122

DOCUMENT-IDENTIFIER: US 6070122 A

**** See image for Certificate of Correction ****

TITLE: Vehicle navigation with priority target display

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 13. Document ID: US 6064941 A

L14: Entry 13 of 21

File: USPT

May 16, 2000

US-PAT-NO: 6064941

DOCUMENT-IDENTIFIER: US 6064941 A

TITLE: Vehicle navigation apparatus and storage medium

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 14. Document ID: US 5991689 A

L14: Entry 14 of 21

File: USPT

Nov 23, 1999

US-PAT-NO: 5991689

DOCUMENT-IDENTIFIER: US 5991689 A

TITLE: Navigation system with switching between an ordinary road preferential mode and a tall road preferential mode

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 15. Document ID: US 5978733 A

L14: Entry 15 of 21

File: USPT

Nov 2, 1999

US-PAT-NO: 5978733

DOCUMENT-IDENTIFIER: US 5978733 A

TITLE: Route search apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 16. Document ID: US 5944768 A

L14: Entry 16 of 21

File: USPT

Aug 31, 1999

US-PAT-NO: 5944768

DOCUMENT-IDENTIFIER: US 5944768 A

**** See image for Certificate of Correction ****

TITLE: Navigation system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 17. Document ID: US 5928308 A

L14: Entry 17 of 21

File: USPT

Jul 27, 1999

US-PAT-NO: 5928308

DOCUMENT-IDENTIFIER: US 5928308 A

**** See image for Certificate of Correction ****

TITLE: Navigation system for vehicles

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 18. Document ID: US 5787383 A

L14: Entry 18 of 21

File: USPT

Jul 28, 1998

US-PAT-NO: 5787383

DOCUMENT-IDENTIFIER: US 5787383 A

TITLE: Vehicle navigation apparatus with route modification by setting detour point

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 19. Document ID: US 5612881 A

L14: Entry 19 of 21

File: USPT

Mar 18, 1997

US-PAT-NO: 5612881

DOCUMENT-IDENTIFIER: US 5612881 A

TITLE: Map display system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 5452212 A

L14: Entry 20 of 21

File: USPT

Sep 19, 1995

US-PAT-NO: 5452212

DOCUMENT-IDENTIFIER: US 5452212 A

TITLE: Navigation system for vehicle

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
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☐ 21. Document ID: US 4992947 A

L14: Entry 21 of 21

File: USPT

Feb 12, 1991

US-PAT-NO: 4992947

DOCUMENT-IDENTIFIER: US 4992947 A

TITLE: Vehicular navigation apparatus with help function

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L13 and ((calculat\$ or determin\$) with distance)	21

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DIALOG(R)File 81:MIRA - Motor Industry Research
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42057

A Profile of Drivers' Map-Reading Abilities

STREETER LA; et al

Corporate Source: Bell Commun Res

Human Factors, Apr 86

April 1, 1986

Page : 223

Collation : (17 p, 11 fig, 15 ref)

Document Type: JOURNAL Language: ENGLISH

Record Type: ABSTRACT

Supplier Record Type: AA

To create better aids for everyday surface navigation, people's navigational preferences, habits, experiences, abilities, and route-selection strategies were examined. Self-described good navigators like and use maps, and they differentially value landmarks, such as rivers, railways and houses, whereas poor navigators tend not to use maps, prefer verbal instructions, and tend to rate all landmarks as equally valuable for route finding.

Routes selected by people with varying degrees of familiarity with an area were compared with routes generated by standard graph-search procedures. A shorest-path, breadth-first route characterised half of the "expert" routes, whereas none of the graph-search procedures matched "intermediate" and "novice" routes. A good predictor of whether people chose a particular road was whether the sum of $A + B + C$ (where A equals the straight-line distance from the start to the road, B equals the distance travelled on the road, and C equals the straight-line distance from the departure point on the road to the destination) did not exceed the straight-line distance between start and destination by more than about 20%. (Auth)

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L6: Entry 2 of 2

File: USPT

Jul 30, 2002

US-PAT-NO: 6427118

DOCUMENT-IDENTIFIER: US 6427118 B1

TITLE: Vehicle-mounted navigation system, and recording medium having recorded thereon a processing program for use therewith

DATE-ISSUED: July 30, 2002

INT-CL: [07] G01 C 21/00, G01 S 1/02, G01 S 5/02, G06 G 7/78

US-CL-ISSUED: 701/209; 701/200.208-, 701/210.215-, 701/23, 701/220, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 73/178R, 342/357.13, 342/457, 345/33

US-CL-CURRENT: 701/209; 340/988, 340/989, 340/990, 340/995.24, 342/357.13, 342/457, 345/33, 701/200, 701/201, 701/202, 701/203, 701/204, 701/205, 701/206, 701/207, 701/208, 701/210, 701/211, 701/212, 701/213, 701/214, 701/215, 701/220, 701/23, 701/24, 701/25, 701/26, 73/178R

FIELD-OF-SEARCH: 701/200-215, 701/220, 701/23, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 340/723, 340/727, 73/178R, 342/357.13, 342/457, 345/33

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